AUTHORS INDEX

Aksy, Y.: *see* Taylor, A., 9
Albrektsson, T. *see* Tjellstrom, A., 149
Allen, M.J.: *see* Barnes, M.R., 35
Apud, A.: *see* Grosse, C., 237
Arhan, P.: *see* Hero, M., 321
Arias Rodriguez, J.E.: *see* Hernandez Sande, G., 334
Avidor, J.: *see* Einav, S., 305
Babin, C.: *see* Hero, M., 321
Barnes, M.R., Gibson, M.J., Scott, J., Bentley, S. and Allen, M.J.: A technique for the long term measurement of intra-compartmental pressure in the lower leg, 35
Bellhouse, B.J. *see* Dorrington, K.L., 89
Benassi, A.: *see* Landini, L., 301
Bentley, S.: *see* Barnes, M.R., 35
Beyar, R. and Dinnar, U. Computer simulation of cardiopulmonary resuscitation, 113
Blond, J.: *see* Boggett, D., 225
Boggett, D., Blond, J. and Rolfe, P. Laser Doppler measurements of blood flow in skin tissue, 225
Bolsinger, P.P. and Mai, N.: A microcomputer system for the measurement of finger forces, 51
Bolvary, G. *see* Katona, Z., 259
Bowker, P. *see* Gill, J.M., 161
Britt, R.H.: *see* Ryan, T.P., 310
Broekhove, L.H.: *see* Wevers, H.W., 241
Caidan, S.: *see* Presswell, D., 68
Cifaldi, S.: *see* Pizzuti, G.P., 247
Cochrane, T.: *see* Malik, M., 266
Cooke, T.D.V., Saunders, G., Siu, D., Yoshioka, Y. and Wevers, H.: Universal bone cutting device for precision knee replacement arthroplasty and osteotomy, 45
Delavault, E. *see* Saumon, G., 132
Devroede, G.: *see* Hero, M., 321
Dinnar, U. *see* Beyar, R., 113
Dorrington, K.L., Ralph, M.E., Bellhouse, B.J., Gardaz, J-P. and Sykes, M.K. Oxygen and CO_2 transfer of a polypropylene dimpled membrane lung with variable secondary flows, 89
Dul, J. and Johnson, G.E. A kinematic model of the human ankle, 137
du Mont, G.: *see* Taylor, A., 9
Edeland, H.G.: Some additional suggestions for an intervertebral disc prosthesis, 57
Einav, S., Avidor, J. and Vidne, B. Haemodynamics of coronary artery-saphenous vein bypass, 305
Engedal, H. *see* Matre, K., 84
Epstein, H.P.: *see* Minns, R.J., 256
Evans, E.J. Vibratory properties and resonances of the isolated human ulna, 144
Fairclough, J.A.: *see* Nokes, L., 40
Faverdin, C.: *see* Hero, M., 321
Ferré, J.P. *see* Latour, A., 127
Foster, M.A. and Hutchinson, J.M.S. NMR Imaging – Method and application, 171
Fulton, T.: *see* Kitney, R.I., 217
Gardaz, J-P. *see* Dorrington, K.L., 89
Gibson, M.J.: *see* Barnes, M.R., 35
Gill, J.M. and Bowker, P. Visualization of skin deformation during wound closure, 161
Glerum, J.J.: *see* van Mastrigt, R., 2
Gracovetsky, S. An hypothesis for the role of the spine in human locomotion: A challenge to current theory, 205
Graupe, D., Salahi, J. and Zhang, DeSong.: Stochastic analysis of myoelectric temporal signatures for multifunctional single-site activation of prostheses and orthoses, 18
Gregory, N.L.: *see* Hosie, C.J., 30
Grosse, A.: *see* Grosse, C., 237
Grosse, C., Pesa de Danon, M., Inglesias, G., Grosse, A. and Apud, P. Testing the response of a cardiac output meter using an artificial circulatory system, 237
Guillen Garcia, P. and Madronero de la Cal, A. Enhancement of bone healing by an exogenous magnetic field and the magnetic vaccine, 157
Guillen, S.G. and Valdez, E. Low cost, microprocessor-based system for flow evaluation in a hydraulic model using the dilution method, 100
Hernandez Sande, C. and Arias Rodriguez, J.E. Monitoring kidney patients by syntactometric EEG analysis, 334
Hero, M., Arhan, P., Devroede, G., Jehannin, B., Faverdin, C., Babin, C. and Pellerin, D. Measuring the anorectal angle, 321
Hosie, C.J., Richardson, W. and Gregory, N.L.: A gamma-ray computed tomography scanner for the quantitative measurement of bone density, 30
Howe, A., Thompson, D. and Wright, V. Microprocessor controlled arthrograph, 153
Hutchinson, J.M.S.: *see* Foster, M.A., 171
Inglesias, G.: *see* Grosse, C., 237
Jefferson, R.J.: *see* Kirtley, C., 282
Jehannin, B.: *see* Hero, M., 321
Johnson, G.E. *see* Dul, J., 137
Jones, N.B.: *see* Papageorgiou, G.L., 295
Jonsson, U. and Stromberg, L. Torsional tests of long bones with computerized equipment, 251
Jossinet, J., Lobel, A., Michoudet, C. and Schmitt, M. Quantitative technique for bio-electrical spectroscopy, 289
Katona, Z. and Bolvary, G. Domiciliary medicine (Letter), 259
Khodadadeh, S. Legendre polynominal coefficients in the analysis of the force plate measurements from an osteoarthritic gait, 318
Kirtley, C., Whittle, M.W. and Jefferson, R.J. Influence of walking speed on gait parameters, 282
Kitney, R.I., Fulton, T., McDonald, A.H. and Linkens, D.A. Transient interactions between blood pressure, respiration and heart rate in man, 217
Landini, L., Picano, E. and Sarnelli, R. Ultrasonic energy-based technique for characterizing atherosclerosis, 233
Landini, L., Mazzarisi, A., Salvadori, M. and Benassi, A. On-line evaluation of ultrasonic integrated backscatter, 301
Latour, A. and Ferré, J.P. Computer-aided analysis of gastrointestinal myoelectrical activity, 127
Laura, P.A.A.: *see* Nava, L.C., 329
Linkens, D.A.: *see* Kitney, R.I., 217
Lobel, A.: *see* Jossinet, J., 289
Lodström, C-G. see Tjellstrom, A., 149
Loiseau, A. *see* Saumon, G., 132
Mackie, I.: *see* Nokes, L., 40
Madronero de la Cal, A. *see* Guillen Garcia, P., 157
Mai, N.: *see* Bolsinger, P.P., 51
Malik, M. and Cochrane, T. Sheli computer model of cardiac electropotential changes, 266
Matre, K., Segadal, L. and Engedal, H. Continuous measurement of aortic blood velocity after cardiac surgery, by means of an extractable doppler ultrasound probe, 84
Mazzarisi, A.: *see* Landini, L., 301
McDonald, A.H.: *see* Kitney, R.I., 217
Merton, P.A. Neurophysiology on man, 196
Michoudet, C.: *see* Jossinet, J., 289
Minns, R.J., Epstein, H.P. and Porter, B.B. Tools for high tibial wedge osteotomy, 256
Mintowt-Czyz, W.J.: *see* Nokes, L., 40
Moody, G.J. Mechanistic studies of ion-selective electrodes, 183
Narasimhan, S.V. and Narayana Dutt, S. Software simulation of the EEG, 275
Narayana Dutt, S.: *see* Narasimhan, S.V., 275
Nava, L.C. and Laura, P.A.A. Design and use of improved walking aids, 329
Nava, L.C.: IMA 11 brace for deambulatory treatment of Legg-Perthes disease, 71
Nokes, L., Mintowt-Czyz, W.J., Fairclough, J.A. Mackie, I. and Williams, J.: Vibration analysis in the assessment of conservatively managed tibial fractures, 40
Nokes, L. Letter, 341
Nolfe, G.: *see* Pizzuti, G.P., 247
Olkkonen, H.: *see* Simonen, P., 337
Palmer, A.R.: *see* Presswell, D., 68
Palmer, A.W.: *see* Shah, Y., 326
Papageorgiou, G.L. and Jones, N.B. A photo-electric transducer for measuring the length and diameter of elastic vessels, 295
Papagiannopoulos, G., Pratt, D.J. and Rees, P.H. The Derby intramedullary nail — a biomechanical comparison, 313
Pesa de Danon, M.: *see* Grosse, C., 237
Pellerin, D.: *see* Hero, M., 321
Picano, E.: *see* Landini, L., 233
Pizzuti, G.P., Cifaldi, S. and Nolfe, G. Digital sampling rate and ECG analysis, 247
Porter, B.B.: *see* Minns, R.J., 256
Pratt, D.J.: Energy of gait in below-knee casts with different soles, 63
Pratt, D.J.: *see* Papagiannopoulos, G., 313
Presswell, D., Caidan, S. and Palmer, A.R.: Free-field acoustic stimulation: A reliable, inexpensive system for positioning a loudspeaker, 68
Ralph, M.E. *see* Dorrington, K.L., 89
Rees, R.H.: *see* Papagiannopoulos, G., 313
Richardson, W.: *see* Hosie, C.J., 30
Rolfe, P.: *see* Boggett, D., 225
Rosenhall, U. *see* Tjellstrom, A., 149
Ryan, T.P. and Britt, R.H. Digital heart monitor derived from the arterial pressure pulse, 310
Salahi, J.: *see* Graupe, D., 18
Salvadori, M.: *see* Landini, L., 301
Sarnelli, R.: *see* Landini, L., 233
Saumon, G., Loiseau, A. and Delavault, E. A servo-controlled air pump for calibration of respiratory measurement systems, 132
Saunders, G.: *see* Cooke, T.V.D., 45
Schmitt, M.: *see* Jossinet, J., 289
Scopes, J.W.: *see* Taylor, A., 9
Scott, J.: *see* Barnes, M.R., 35
Segadal, L.: *see* Matre, K., 84
Shah, Y., Valsle, R.A. and Palmer, A.W. An optical fibre plethysmograph, 326
Simonen, P. and Olkkonen, H. Fast method for computing the Fourier integral transform via Simpson's numerical integration, 337
Siu, D.: *see* Cooke, T.V.D., 45
Siu, D.W.: *see* Wevers, H.W., 241
Soames, R.W. Foot pressure patterns during gait, 120
Sorbie, C.: *see* Wevers, H.W., 241
Stephen, R.D. Vibration analysis (Letter), 341
Stromberg, L.: *see* Jonsson, U., 251
Sykes, M.K.: *see* Dorrington, K.L., 89
Taylor, A., Aksy, Y., Scopes, J.W., du Mont, G and Taylor, B.A.: Development of an air displacement method for whole body measurement of infants, 9
Taylor, B.A.: *see* Taylor, A., 9

AUTHORS INDEX

Aksy, Y.: *see* Taylor, A., 9
Albrektsson, T. *see* Tjellstrom, A., 149
Allen, M.J.: *see* Barnes, M.R., 35
Apud, A.: *see* Grosse, C., 237
Arhan, P.: *see* Hero, M., 321
Arias Rodriguez, J.E.: *see* Hernandez Sande, G., 334
Avidor, J.: *see* Einav, S., 305
Babin, C.: *see* Hero, M., 321
Barnes, M.R., Gibson, M.J., Scott, J., Bentley, S. and Allen, M.J.: A technique for the long term measurement of intra-compartmental pressure in the lower leg, 35
Bellhouse, B.J. *see* Dorrington, K.L., 89
Benassi, A.: *see* Landini, L., 301
Bentley, S.: *see* Barnes, M.R., 35
Beyar, R. and Dinnar, U. Computer simulation of cardiopulmonary resuscitation, 113
Blond, J.: *see* Boggett, D., 225
Boggett, D., Blond, J. and Rolfe, P. Laser Doppler measurements of blood flow in skin tissue, 225
Bolsinger, P.P. and Mai, N.: A microcomputer system for the measurement of finger forces, 51
Bolvary, G. *see* Katona, Z., 259
Bowker, P. *see* Gill, J.M., 161
Britt, R.H.: *see* Ryan, T.P., 310
Broekhove, L.H.: *see* Wevers, H.W., 241
Caidan, S.: *see* Presswell, D., 68
Cifaldi, S.: *see* Pizzuti, G.P., 247
Cochrane, T.: *see* Malik, M., 266
Cooke, T.D.V., Saunders, G., Siu, D., Yoshioka, Y. and Wevers, H.: Universal bone cutting device for precision knee replacement arthroplasty and osteotomy, 45
Delavault, E. *see* Saumon, G., 132
Devroede, G.: *see* Hero, M., 321
Dinnar, U. *see* Beyar, R., 113
Dorrington, K.L., Ralph, M.E., Bellhouse, B.J., Gardaz, J-P. and Sykes, M.K. Oxygen and CO_2 transfer of a polypropylene dimpled membrane lung with variable secondary flows, 89
Dul, J. and Johnson, G.E. A kinematic model of the human ankle, 137
du Mont, G.: *see* Taylor, A., 9
Edeland, H.G.: Some additional suggestions for an intervertebral disc prosthesis, 57
Einav, S., Avidor, J. and Vidne, B. Haemodynamics of coronary artery-saphenous vein bypass, 305
Engedal, H. *see* Matre, K., 84
Epstein, H.P.: *see* Minns, R.J., 256
Evans, E.J. Vibratory properties and resonances of the isolated human ulna, 144
Fairclough, J.A.: *see* Nokes, L., 40
Faverdin, C.: *see* Hero, M., 321
Ferré, J.P. *see* Latour, A., 127
Foster, M.A. and Hutchinson, J.M.S. NMR Imaging – Method and application, 171
Fulton, T.: *see* Kitney, R.I., 217
Gardaz, J-P. *see* Dorrington, K.L., 89
Gibson, M.J.: *see* Barnes, M.R., 35
Gill, J.M. and Bowker, P. Visualization of skin deformation during wound closure, 161
Glerum, J.J.: *see* van Mastrigt, R., 2
Gracovetsky, S. An hypothesis for the role of the spine in human locomotion: A challenge to current theory, 205
Graupe, D., Salahi, J. and Zhang, DeSong.: Stochastic analysis of myoelectric temporal signatures for multifunctional single-site activation of prostheses and orthoses, 18
Gregory, N.L.: *see* Hosie, C.J., 30
Grosse, A.: *see* Grosse, C., 237
Grosse, C., Pesa de Danon, M., Inglesias, G., Grosse, A. and Apud, P. Testing the response of a cardiac output meter using an artificial circulatory system, 237
Guillen Garcia, P. and Madronero de la Cal, A. Enhancement of bone healing by an exogenous magnetic field and the magnetic vaccine, 157
Guillen, S.G. and Valdez, E. Low cost, microprocessor-based system for flow evaluation in a hydraulic model using the dilution method, 100
Hernandez Sande, C. and Arias Rodriguez, J.E. Monitoring kidney patients by syntactometric EEG analysis, 334
Hero, M., Arhan, P., Devroede, G., Jehannin, B., Faverdin, C., Babin, C. and Pellerin, D. Measuring the anorectal angle, 321
Hosie, C.J., Richardson, W. and Gregory, N.L.: A gamma-ray computed tomography scanner for the quantitative measurement of bone density, 30
Howe, A., Thompson, D. and Wright, V. Microprocessor controlled arthrograph, 153
Hutchinson, J.M.S.: *see* Foster, M.A., 171
Inglesias, G.: *see* Grosse, C., 237
Jefferson, R.J.: *see* Kirtley, C., 282
Jehannin, B.: *see* Hero, M., 321
Johnson, G.E. *see* Dul, J., 137
Jones, N.B.: *see* Papageorgiou, G.L., 295
Jonsson, U. and Stromberg, L. Torsional tests of long bones with computerized equipment, 251
Jossinet, J., Lobel, A., Michoudet, C. and Schmitt, M. Quantitative technique for bio-electrical spectroscopy, 289
Katona, Z. and Bolvary, G. Domiciliary medicine (Letter), 259
Khodadadeh, S. Legendre polynominal coefficients in the analysis of the force plate measurements from an osteoarthritic gait, 318
Kirtley, C., Whittle, M.W. and Jefferson, R.J. Influence of walking speed on gait parameters, 282
Kitney, R.I., Fulton, T., McDonald, A.H. and Linkens, D.A. Transient interactions between blood pressure, respiration and heart rate in man, 217
Landini, L., Picano, E. and Sarnelli, R. Ultrasonic energy-based technique for characterizing atherosclerosis, 233
Landini, L., Mazzarisi, A., Salvadori, M. and Benassi, A. On-line evaluation of ultrasonic integrated backscatter, 301
Latour, A. and Ferré, J.P. Computer-aided analysis of gastrointestinal myoelectrical activity, 127
Laura, P.A.A.: *see* Nava, L.C., 329
Linkens, D.A.: *see* Kitney, R.I., 217
Lobel, A.: *see* Jossinet, J., 289
Lodström, C-G. see Tjellstrom, A., 149
Loiseau, A. *see* Saumon, G., 132
Mackie, I.: *see* Nokes, L., 40
Madronero de la Cal, A. *see* Guillen Garcia, P., 157
Mai, N.: *see* Bolsinger, P.P., 51
Malik, M. and Cochrane, T. Sheli computer model of cardiac electropotential changes, 266
Matre, K., Segadal, L. and Engedal, H. Continuous measurement of aortic blood velocity after cardiac surgery, by means of an extractable doppler ultrasound probe, 84
Mazzarisi, A.: *see* Landini, L., 301
McDonald, A.H.: *see* Kitney, R.I., 217
Merton, P.A. Neurophysiology on man, 196
Michoudet, C.: *see* Jossinet, J., 289
Minns, R.J., Epstein, H.P. and Porter, B.B. Tools for high tibial wedge osteotomy, 256
Mintowt-Czyz, W.J.: *see* Nokes, L., 40
Moody, G.J. Mechanistic studies of ion-selective electrodes, 183
Narasimhan, S.V. and Narayana Dutt, S. Software simulation of the EEG, 275
Narayana Dutt, S.: *see* Narasimhan, S.V., 275
Nava, L.C. and Laura, P.A.A. Design and use of improved walking aids, 329
Nava, L.C.: IMA 11 brace for deambulatory treatment of Legg-Perthes disease, 71
Nokes, L., Mintowt-Czyz, W.J., Fairclough, J.A. Mackie, I. and Williams, J.: Vibration analysis in the assessment of conservatively managed tibial fractures, 40
Nokes, L. Letter, 341
Nolfe, G.: *see* Pizzuti, G.P., 247
Olkkonen, H.: *see* Simonen, P., 337
Palmer, A.R.: *see* Presswell, D., 68
Palmer, A.W.: *see* Shah, Y., 326
Papageorgiou, G.L. and Jones, N.B. A photo-electric transducer for measuring the length and diameter of elastic vessels, 295
Papagiannopoulos, G., Pratt, D.J. and Rees, P.H. The Derby intramedullary nail — a biomechanical comparison, 313
Pesa de Danon, M.: *see* Grosse, C., 237
Pellerin, D.: *see* Hero, M., 321
Picano, E.: *see* Landini, L., 233
Pizzuti, G.P., Cifaldi, S. and Nolfe, G. Digital sampling rate and ECG analysis, 247
Porter, B.B.: *see* Minns, R.J., 256
Pratt, D.J.: Energy of gait in below-knee casts with different soles, 63
Pratt, D.J.: *see* Papagiannopoulos, G., 313
Presswell, D., Caidan, S. and Palmer, A.R.: Free-field acoustic stimulation: A reliable, inexpensive system for positioning a loudspeaker, 68
Ralph, M.E. *see* Dorrington, K.L., 89
Rees, R.H.: *see* Papagiannopoulos, G., 313
Richardson, W.: *see* Hosie, C.J., 30
Rolfe, P.: *see* Boggett, D., 225
Rosenhall, U. *see* Tjellstrom, A., 149
Ryan, T.P. and Britt, R.H. Digital heart monitor derived from the arterial pressure pulse, 310
Salahi, J.: *see* Graupe, D., 18
Salvadori, M.: *see* Landini, L., 301
Sarnelli, R.: *see* Landini, L., 233
Saumon, G., Loiseau, A. and Delavault, E. A servo-controlled air pump for calibration of respiratory measurement systems, 132
Saunders, G.: *see* Cooke, T.V.D., 45
Schmitt, M.: *see* Jossinet, J., 289
Scopes, J.W.: *see* Taylor, A., 9
Scott, J.: *see* Barnes, M.R., 35
Segadal, L.: *see* Matre, K., 84
Shah, Y., Valsle, R.A. and Palmer, A.W. An optical fibre plethysmograph, 326
Simonen, P. and Olkkonen, H. Fast method for computing the Fourier integral transform via Simpson's numerical integration, 337
Siu, D.: *see* Cooke, T.V.D., 45
Siu, D.W.: *see* Wevers, H.W., 241
Soames, R.W. Foot pressure patterns during gait, 120
Sorbie, C.: *see* Wevers, H.W., 241
Stephen, R.D. Vibration analysis (Letter), 341
Stromberg, L.: *see* Jonsson, U., 251
Sykes, M.K.: *see* Dorrington, K.L., 89
Taylor, A., Aksy, Y., Scopes, J.W., du Mont, G and Taylor, B.A.: Development of an air displacement method for whole body measurement of infants, 9
Taylor, B.A.: *see* Taylor, A., 9

Taylor, D.E.M.: *see* Tukmachi, E.S.A., 105
Thompson, D.: *see* Howe, A., 153
Tjellstrom, A., Albrektsson, T., Lodstrom, C-G. and Rosenhall, U. Intraosseous transducers for hearing by bone conduction. Peroperative measurements, 149
Tukmachi, E.S.A. and Taylor, D.E.M. Method of assessing the contribution of components of an anastomosing vascular network to total vascular impedance, 105
Valsler, R.A.: *see* Shah, Y., 326
Valdez, E.: *see* Guillen, S.G., 100
van Mastrigt, R. and Glerum, J.J.: Electrical stimulation of smooth muscle strips from the urinary bladder of the pig, 2
Vidne, B.: *see* Einav, S., 305
Wevers, H.W., Siu, D.W., Broekhove, L.H. and Sorbie, C. Resurfacing elbow prosthesis: Shape and sizing of the humeral component, 241
Wevers, H.: *see* Cooke, T.V.D., 45
Whittle, M.W.: *see* Kirtley, C., 282
Williams, J.: *see* Nokes, L., 40
Wright, V.: *see* Howe, A., 153
Yoshioka, Y.: *see* Cooke, T.V.D., 45
Zhang, DeSong.: *see* Graupe, D., 18

SUBJECT INDEX

Acoustic stimulation, free-Field, a reliable, inexpensive system for positioning a loudspeaker, 68
Air displacement method for whole body measurement of infants, development of an, 9
Anastomosing vascular network, method of assessing the contribution of components of an, to total vascular impedance, 105
Ankle, a kinematic model of the human, 137
Anorectal angle, measuring the, 321
Arterial pressure pulse, digital heart rate monitor derived from the, 310
Arthrograph, microprocessor controlled, 153
Atherosclerosis, ultrasonic energy-based technique for characterizing, 233
Blood flow in skin tissue, laser Doppler measurements of, 225
Blood pressure, respiration and heart rate in man, transient interactions between, 217
Blood velocity, aortic, continuous measurement of, after cardiac surgery, by means of an extractable doppler ultrasound probe, 84
Bone conduction, intraosseous transducers for hearing by, 149
Bone cutting device, universal, for precision knee replacement arthroplasty and osteotomy, 45
Bone density, gamma-ray computed tomography scanner for the quantitative measurement of, 30
Bone healing, enhancement of, by an exogenous magnetic field (and the magnetic vaccine), 157
Bones, long, torsional tests of, with computerized equipment, 251
Brace, IMA II, for deambulatory treatment of Legg-Perthes disease, 71
Cardiac electropotential changes, shell computer model of, 266
Cardiac output meter using an artificial circulatory system, testing the response of a, 237
Cardiopulmonary resuscitation, computer simulation of, 113
Computer-aided analysis of gastrointestinal myoelectric activity, 127
Computing the Fourier integral transform via Simpson's numerical integration, fast method for, 337
Computer simulation of cardiopulmonary resuscitation, 113
Continuous measurement of aortic blood velocity after cardiac surgery, by means of extractable doppler ultrasound probe, 84
Coronary artery-saphenous vein bypass, haemodynamics of, 305
Derby intramedullary nail – a biomechanical comparison, 313
Design and use of improved walking aids, 329
Development of an air displacement method for whole body measurement of infants, 9
Digital heart rate monitor derived from the arterial pressure pulse, 310
Digital sampling rate and ECG analysis, 247
Doppler ultrasound probe, continuous measurement of aortic blood velocity after cardiac surgery, by means of an extractable, 84
Domiciliary medicine, 259
ECG analysis, digital sampling rate and, 247
EEG analysis, syntactometric, monitoring kidney patients by, 334
EEG, software simulation of the, 275
Elbow prosthesis, resurfacing, shape and sizing of the humeral component, 241
Electrical stimulation of smooth muscle strips from the urinary bladder of the pig, 2
Electrodes, ion-selective, mechanistic studies of, 183
Energy of knee gait in below-knee casts with different soles, 63
Enhancement of bone healing by an exogeneous magnetic field (and the magnetic vaccine), 157
Fast method for computing the Fourier integral transform via Simpson's numerical integration, 337
Finger forces, microcomputer system for the measurement of, 51
Flow evaluation in a hydraulic model using the dilution method, low cost, microprocessor-based system for, 100
Foot pressure patterns during gait, 120
Force plate measurements from an osteoarthritic gait, Legendre polynominal coefficients in the analysis of the, 318
Fourier integral transform, fast method for computing the, via Simpson's numerical integration, 337
Free-field acoustic stimulation: A reliable, inexpensive system for positioning a loudspeaker, 68
Gait, energy of, in below-knee casts with different soles, 63
Gait, foot pressure patterns during, 120
Gait, osteoarthritic, Legendre polynominal coefficients in the analysis of the force plate measurements from an, 318
Gait parameters, influence of walking speed on, 282
Gamma-ray computed tomography scanner for the quantitative measurement of bone density, 30
Gastrointestinal myoelectric activity, computer-aided analysis of, 127
Haemodynamics of coronary artery-saphenous vein bypass, 305
Hearing by bone conduction, intraosseous transducers for, 149
Heart rate in man, transient interactions between blood pressure, respiration and, 217
Heart rate monitor, digital, derived from the arterial pressure pulse, 310
Hydraulic model, low cost, microprocessor-based system for flow evaluation in a, using the dilution method, 100
Hypothesis for the role of the spine in human locomotion: A challenge to current theory, 205
Ion-selective electrodes, mechanistic studies of, 183
IMA II brace for deambulatory treatment of Legg-Perthes disease, 71
Infants, whole body measurement of, development of an air displacement method for, 9
Influence of walking speed on gait parameters, 252
Intervertebral disc prosthesis, 57
Intramedullary nail, Derby, a biomechanical comparison, 313
Intraosseous transducers for hearing by bone conduction, 149
Kidney patients, monitoring, by syntactomeric EEG analysis, 334
Kinematic model of the human ankle, 137
Knee-replacement arthroplasty and osteotomy, universal bone cutting device for precision, 45
Laser Doppler measurements of blood flow in skin tissue, 225
Legendre polynominal coefficients in the analysis of the force plate measurements from an osteoarthritic gait, 318
Legg-Perthes disease, IMA II brace for deambulatory treatment of, 71
Loudspeaker, a reliable, inexpensive system for positioning a, free-field acoustic stimulation, 68
Low cost, microprocessor-based system for flow evaluation in a hydraulic model using the dilution method, 100
Lung, polypropylene dimpled membrane, with variable flow, oxygen and CO_2 transfer of a, 89
Magnetic field (and the magnetic vaccine), exogenous, enhancement of bone healing by an, 157
Measuring the anorectal angle, 321
Mechanistic studies of ion-selective electrodes, 183
Method of assessing the contribution of components of an anastomising vascular network to total vascular impedance, 105
Microcomputer system for the measurement of finger forces, 51
Microprocessor controlled arthrograph, 153
Model, shell computer, of cardiac electropotential changes, 266
Monitoring kidney patients by syntactomeric EEG analysis, 334
Muscle strips, smooth, electrical stimulation of, from the urinary bladder of the pig, 2
Myoelectric activity, gastrointestinal, computer-aided analysis of, 127
Myoelectric temporal signatures, stochastic analysis of, for multifunctional single-site activation of prostheses and orthoses, 18
Neurophysiology on man, 196
NMR Imaging – Method and application, 171
Numerical integration, Simpson's, fast method for computing the Fourier integral transform via, 337
On-line evaluation of ultrasonic integrated backscatter, 301
Optical fibre plethysmograph, 326
Osteotomy, tools for high tibial wedge, 256
Oxygen and CO_2 transfer of a polypropylene dimpled membrane lung with variable secondary flows, 89
Photoelectrical transducer for measuring the length and diameter of elastic vessels, 295
Plethysmograph, optical fibre, 326
Pressure, intra-compartment, in the lower leg, technique for the long term measurement of, 35
Prostheses and orthoses, multifunctional single-site activation of, stochastic analysis of myoelectric temporal signatures for, 18
Prosthesis, intervertebral disc, 57

Prosthesis, resurfacing elbow, shape and sizing of the humeral component, 241
Quantitative technique for bio-electrical spectroscopy, 289
Respiration and heart rate in man, transient interactions between blood pressure, 217
Respiratory measurement systems, a servo-controlled air pump for calibration of, 132
Resurfacing elbow prosthesis: Shape and sizing of the humeral component, 241
Scanner, gamma-ray computed tomography, for the quantitative measurement of bone density, 30
Servo-controlled air pump for calibration of respiratory measurement systems, 132
Shell computer model for cardiac electro-potential changes, 266
Skin deformation during wound closure, visualization of, 161
Software simulation for the EEG, 275
Soles, energy of gait in below-knee casts with different, 63
Spectroscopy, bio-electrical, quantitative technique for, 289
Spine in human locomotion, an hypothesis for the role of the, a challenge to current theory, 205
Stochastic analysis of myoelectric temporal signatures for multifunctional single-site activation of prostheses and orthoses, 18
Technique for the long term measurement of intra-compartmental pressure in the lower leg, 35
Testing the response of a cardiac output meter using an artificial circulatory system, 237
Tibial fractures, conservatively managed, vibration analysis in the assessment of, 40
Tibial wedge osteotomy, tools for high, 256
Tools for high tibial wedge osteotomy, 256
Torsional tests of long bones with computerized equipment, 251
Transducer, photoelectric, for measuring the length and diameter of elastic vessels, 295
Transient interactions between blood pressure, respiration and heart rate in man, 217
Ulna, isolated human, vibratory properties and resonances of the, 144
Ultrasonic energy-based technique for characterizing atherosclerosis, 233
Ultrasonic integrated backscatter, on-line evaluation of, 301
Universal bone cutting device for precision knee replacement arthroplasty and osteotomy, 45
Vascular impedance, total, method of assessing the contribution of components of an anastomosing vascular network to, 105
Vessels, elastic, photoelectric transducer for measuring the length and the diameter of, 295
Vibration analysis in the assessment of conservatively managed tibial fractures, 40
see Letter, 341
Vibratory properties and resonances of the isolated human ulna, 144
Visualization of skin deformation during wound closure, 161
Walking aids, design and use of improved, 239
Wound closure, visualization of skin deformation during, 161